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A CATALOGUE

OF

RECENT CEPHALOPODA.

SUPPLEMENT, 1887-96.

By

WILLIAM E. HOYLE,

M.A.(Oxon.), M.R.C.S., F.R.S.E.,

Keeper of the Manchester Museum, Owens College.

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Eleven years ago the Royal Physical Society did me the honour of publishing a list of the species of recent Cephalopoda, as complete as I could make it, up to that date.[1] The decennium which has since elapsed has witnessed the issue of several important memoirs on this group of animals, as well as the usual number of scattered papers. For the purpose of my own studies, I have found it necessary to keep this Catalogue up to date, and it has occurred to me

[1] Proc. Roy. Phys. Soc. Edin., vol. ix., pp. 205-267, 1886.

that it might be worth while to place the result in the hands of my fellow-workers through the medium of this Society.

The number of new species which have been created during the past ten years is 79, and, as usually happens, the largest genera have received the most numerous accessions. The already unwieldy genus *Octopus*, for example, has been enriched by 21 new names, and *Sepia*, another large genus, has received 9 additions. The number of new genera described is 9, all of which are based upon new species, whilst 3 include in addition species previously known.

The new forms are in nearly all cases adequately described, and in the majority of instances figured with sufficient detail, so that there has been comparatively little room for doubt as to their claim to specific distinction. In cases of uncertainty I have adhered to the principle, mentioned in my previous list, of not registering species as identical without very strong evidence. In the case of a Catalogue like the present, which makes no pretensions to monographic completeness, less harm is done by letting two names stand side by side than by hastily entering them as synonymous.

Most of the novelties are from the eastern seas, and are due to the investigations of Dr Ortmann into the Japanese forms, of the late Dr Brock, whose untimely death deprived zoological science of a promising worker in this interesting field, and of Mr Goodrich, who has reported upon the collections in the Calcutta Museum.

It is, however, no injustice to these workers to say that the most important systematic work on the Cephalopoda which has appeared in recent years is the Monograph which Dr Jatta has published in the "Fauna and Flora of the Gulf of Naples." It is the result of more than ten years work, and is based upon abundant material prepared with all the resources which have rendered the Naples station famous all over the world. The descriptions are careful and elaborate, and there is a wealth of illustrations, which should render it impossible in future to mistake any of the species there enumerated.

The arrangement of this Supplement is on the same lines as that of the Catalogue. It has appeared desirable, on

grounds of convenience, to adhere to the classification there adopted, and I have felt the less hesitation in so doing by reason of the commendation which it has received from the pen of Dr Jatta. A reference has been given to the creation of each species, and to other places where information of importance will be found, and also an indication of its habitat. A few notes on previously known species have been added. In conclusion, I desire to express my appreciation of the value and completeness of the "Zoological Record": I have found scarcely any omissions in its pages.

Class CEPHALOPODA, Cuvier.

Order I. DIBRANCHIATA, Owen, 1832.

Suborder I. OCTOPODA, Leach, 1818.

Division 1. Lioglossa, Lütken, 1882.

Family I. Pteroti, Reinhardt et Prosch, 1846.

Cirroteuthis, Eschricht, 1836.

8. **C. caudani**, Joubin, Ann. Univ. Lyon, vol. xxvi., p. 247, fig., 1896.
Lusitanian Region.

Opisthoteuthis, Verrill, 1883.

2. **O. depressa**, Ijima and Ikeda, J. Coll. Sci. Tokyo, viii., pp. 1-15, pl. xxxiii., 1895.
Japanese Region.

Family III. Argonautidæ, Cantraine, 1841.

Argonauta, Linné, 1756.

6. **A. Bœttgeri**, Maltzan: Smith, Ann. and Mag. Nat. Hist. (5), xx., p. 409, pl. xvii., figs. 1-6, 1887.
Indo-Malayan Region.

8. **A. Bulleri**, Kirk, Trans. N. Zeal. Inst., vol. xviii., p. 138, pl. iv., 1885.
New Zealand Region.

Family IV. PHILONEXIDÆ, d'Orbigny, 1838.

Tremoctopus, delle Chiaje, 1830.

10. **T. Dœderleini**, Ortm., Jap. Ceph., p. 642, pl. xx., 1888.
Japanese Region.

11. **T. microstoma**, Joubin, Céph. "Melita," pp. 218-225, cuts, 1893.[1]

12. **T. hirondellei**, Joubin, Céph. atlant. nord, pp. 10-13, pls i., figs. 1, 2; ii., figs. 1-3, 1895.
Atlantic Region.

Family VI. OCTOPODIDÆ, d'Orbigny, 1838.

Octopus, Lamarck, 1799.

7A. **O. Hyadesi**, Roch. & Mab., Moll. Cap Horn, p. H6, 1889.
Patagonian Region.

15A. **O. Brocki**, Ortm., Jap. Ceph., p. 645, pl. xxi., fig. 4; pl. xxii., fig. 1, 1888.
Japanese Region.

27A. **O. kagoshimensis**, Ortm., Jap. Ceph., p. 644, pl. xxi., fig. 2, 1888.
Japanese Region.

34A. **O. robustus**, Brock, Nachr. Ges. Göttingen, 1887, No. 11, p. 317.
Australian Region.

35A. **O. Chierchiæ**, Jatta, Boll. soc. nat. Napoli, iii., p. 65, 1889.
Peruvian Region.

44A. **O. pentherinus**, Roch. & Mab., Moll. Cap Horn, p. H7, 1889.
Patagonian Region.

79. **O. microphthalmus**, Goodrich, Ceph. Calcutta Mus., p. 20, pl. v., figs. 83, 84, 1896.
Indo-Malayan Region.

80 **O. pulcher**, Brock, Ind. Ceph., p. 607, 1887.
Indo-Malayan Region.

81. **O. chromatus**, Heilprin, P. Ac. Philad., p. 324, pl. xvi. fig. 1, 1888.
1889. *Octopus chromatus* (?), Heilprin, Bermuda Is., p. 167, pl. 15 (no description).
New England Region.

[1] Gives an interesting account of the structure and disposition of the hectocotylised arm, whilst still enclosed in its sac.

82. **O. ergasticus**, P. & H. Fischer, Journ. de Conch., 1892 (3), xxxii., p. 298, fig. B [1893].
West African Region.

83. **O. sponsalis**, P. & H. Fischer, Journ. de Conch., 1892 (3), xxxii., p. 297, fig. A [1893].
West African Region.

84. **O. Alberti**, Joubin, Céph. atlant. nord, pp. 18-20, pl. i., figs. 3 and 4, 1895.
Lusitanian Region.

85. **O. Digueti**, Perrier & de Rochebrune, Comptes rendus, cxviii., p. 770, 1894.
1896. *O. Digueti*, Rochebr., Arch. Mus. Paris, t. viii., pp. 75-86, figg.
Californian Region.

86. **O. elegans**, Brock, Ind. Ceph., p. 597, 1887.
Indo-Malayan Region.

87. **O. amboinensis**, Brock, Ind. Ceph., p. 598, 1887.
1894. *O. amboinensis*, Joubin, Céph. d'Amboine, p. 31.
Indo-Malayan Region.

88. **O. Machiki**, Brock, Ind. Ceph., p. 599, 1887.
Indo-Malayan Region.

89. **O. pisiformis**, Brock, Ind. Ceph., p. 601, pl. 16, figs. 1 and 2, 1887.
Indo-Malayan Region.

90. **O. inconspicuus**, Brock, Ind. Ceph., p. 603, pl. 16, fig. 4, 1887.
1894. *O. inconspicuus*, Joubin, Céph. d'Amboine, p. 33.
Indo-Malayan Region.

91. **O. Harmandi**, Rochebr., Bull. Soc. Philom. (7), vi., p. 73, 1882.
Indo-Malayan Region.

92. **O. coerulescentes**, Fra Piero, Moll. Sardegna, p. 267, 1895.
Mediterranean Region.

93. **O. Monterosatoi**, Fra Piero, Moll. Sardegna, p. 268, 1895.
Mediterranean Region.

Enteroctopus,[1] Roch. & Mab., 1889.

1. **E. membranaceus**, Roch. & Mab., Moll. Cap Horn, p. H7, 1889.
Patagonian Region.

[1] *Octopus megalocyathus*, Gould, is also included by the authors in this genus.

Eledone, Leach, 1817.

7. E. Aldrovandi (Raf.),[1] Précis découv. somiol., p. 29.
   1889. *E. Aldrovandi*, Posselt, Ceph., "Hauch's" Togter, p. 4, 1889.
   1896. ,, ,, Jatta, Cef. Napoli, p. 243, pl. 5, fig. 1, etc.
   Mediterranean Region.
8. E. albus, Fra Piero, Moll. Sardegna, p. 265, 1895.
   Mediterranean Region.
9. E. grisea, Fra Piero, Moll. Sardegna, p. 266, 1895.
   Mediterranean Region.

Suborder II. DECAPODA, Leach, 1818.

Division 1. Myopsida, d'Orbigny, 1845.

Family VII. Sepiolini, Steenstrup, 1861.

Sepiola (Rondelet, 1554), Leach, 1817.

11. S. Scandica, Stp., Notæ teuthol., 6, p. 65, 1887.[2]
    Scandinavian Region.
12. S. aurantiaca, Jatta, Cef. Napoli, pp. 130-133, pl. v., fig. 4; pl. xiv., figs. 31-46, 1896.
    Mediterranean Region.

Inioteuthis,[3] Verrill, 1881.

3. I. maculosa, Goodrich, Ceph. Calcutta Mus., p. 2, pl. i., figs. 1-3, 1896.
   Indo-Malayan Region.

Microteuthis, Ortmann, 1888.

1. M. paradoxa, Ortm., Jap. Ceph., p. 649, pl. xxii., fig. 4, 1888.
   Japanese Region.

[1] Posselt and Jatta have shown that I was mistaken in regarding this as a synonym of *E. cirrosa*.

[2] *S. Petersii*, Stp., is regarded by Jatta as a variety of *S. Rondeleti*, and I think his arguments are quite convincing.

[3] *Inioteuthis japonica* and *I. Morsei* are redescribed, with figures of hectocotylised arms and suckers, by Ortmann, Jap. Ceph., p. 647, pls. xxi., figs. 6, 7; and xxii., figs. 2, 3, 1888.

Rossia, Owen, 1834.

1. R. palpebrosa, Owen.[1]
   1896. *Rossia palpebrosa*, Jatta, Cef. Napoli, pp. 139-142, pl. xv., figs. 11-20.
   Arctic and Mediterranean Regions.
8. R. Mölleri, Stp., Becher, Moll. Jan Mayen, p. 81, fig. 9, 1886.
   Arctic Region.

Family VIII. Sepiarii, Steenstrup, 1861.

Sepidæ, d'Orb. (*pars*).

Subfamily Idiosepii, Steenstrup, 1881.

Idiosepius, Steenstrup, 1881.

2. I. Picteti, Joubin, Céph. d'Amboine, Compl., p. 459, 1895.
   1894. *Loligo Picteti*, Joubin, Céph. d'Amboine, pp. 60-64, pls. iii., iv.
   Indo-Malayan Region.

Subfamily Eusepii, Steenstrup, 1881.

Sepia, Linné, 1766.

23A. S. torosa, Ortm., Jap. Ceph., p. 652, pl. xxiii., fig. 2, 1888.
   Japanese Region.

24A. S. Hoylei, Ortm., Jap. Ceph., p. 650, pl. xxii., fig. 5; pl. xxiii., fig. 1, 1888.
   Japanese Region.

35A. S. tokioensis, Ortm., Jap. Ceph., p. 653, pl. xxiii., fig. 3, 1888.
   Japanese Region.

59. S. microcotyledon, Ortm., Ceph. Ceylon, p. 673, fig. 1, 1891.
   Indo-Malayan Region.

60. S. hercules, Pilsbry, Nautilus, vii., p. 144, 1894.
   Japanese Region.

61. S. framea, Ortm., Ceph. Ceylon, p. 675, fig. 2, 1891.
   Indo-Malayan Region.

62. S. apama, Gray, M'Coy, Prodr. Zool. Viet., Dec. xix., p. 325, pls. 188-190, 1889.

63. S. singalensis, Goodrich, Ceph. Calcutta Mus., p. 3, pl. i., figs. 4-8, 1896.
   Indo-Malayan Region.

[1] The discovery of this rare Arctic form in the Mediterranean is very interesting.

64. S. Veranyi, Lagatu, Actes Soc. L. Bord., xlii., 2, pp. 115-117, pl. viii., 1889.
Mediterranean Region.

Family IX. LOLIGINEI, Steenstrup, 1861.

Sepioteuthis, Blainville, 1825.

18. **S. indica**, Goodrich, Ceph. Calcutta Mus., p. 5, pl. i., figs. 9-19, 1896.
Indo-Malayan Region.

Loligo, Lamarck, 1799.

19. **L. Bleekeri**, Joubin, Céph. d'Amboine, pp. 56-69, 1894.
Indo-Malayan Region.

20A. **L. tetradynamia**, Ortm., Jap. Ceph., p. 659, pl. xxiii., fig. 4; pl. xxv. fig. 1, 1888.
Japanese Region.

37. **L. aspera**, Ortm., Jap. Ceph., p. 661, pl. xxv., fig. 3, 1888.
Japanese Region.

38. **L. singhalensis**, Ortm., Ceph. Ceylon, p. 676, fig. 3, 1891.
Indo-Malayan Region.

39. **L. Stearnsii**, Hemphill, Zoe, iii., pp. 51, 52, 1892.[1]
Californian Region.

Loliolus, Steenstrup, 1856.

4. **L. investigatoris**, Goodrich, Ceph. Calcutta Mus., p. 8, pl. ii., figs. 29-37, 1896.
Indo-Malayan Region.

Division 2. Œgopsida, d'Orbigny, 1839.

Family X. OMMASTREPHINI, Steenstrup, 1861.

Subfamily OMMASTREPHIDÆ, Gill, 1871.

Ommastrephes, d'Orbigny, 1835.

11. **O. Caroli**, Furtado, Mem. Sci. Lisb., vol. 49, pt. 2, pp. 1-19, 2 pls., 1887.
1887. *Ommatostrephes Caroli*, Stp., Notæ Teuthol., 8, pp. 128-146.
Atlantic Region.

[1] This is a mere *nomen nudum:* the description is quite worthless, as the species could never be recognised from it.

2. **O. gigas**, d'Orb.: v. Martens, Sitzungsb. Ges. naturf. Freunde Berlin, 1894, p. 234.[1]

12. **O. Gouldi**, M'Coy, Prodr. Zool. Victoria, Dec. xvii., p. 255, pls. 169, 170, 1888.

Australian Region.

Todarodes, Steenstrup, 1880.

1. **T. sagittatus** (Lmk.), Stp.

1890. *T. sagittatus*, Posselt, Vid. Medd. Kjöbenhavn, pp. 301-359, pls. viii., ix.[2]

Todaropsis, Girard, 1890.

1. **T. Veranyi**,[3] Girard, Nota ceph. Portugal, p 204, 1890; Rév. moll. Lisbonne, pp. 261-264, figs. 4-10, 1890.

1896. *Todaropsis Veranyi*, Jatta, Cef. Napoli, pp. 76-80, pls. ii., fig. 7; xii., 4-19.

Atlantic Region.

2. **T. eblanæ**[3] (Ball), Proc. Roy. Irish Acad., i., p. 363, figs. 1-7, 1841.

Illex eblanæ, Hoyle, Journ. Mar. Biol. Assoc., N.S., vol. ii., pp. 189-192, cuts, 1892.

Todaropsis eblanæ, Posselt, Vid. Medd. Kjöbenhavn, Ap. i., 1892, 1893.

Martialia, Roch. & Mab., 1889.

1. **M. hyadesi**, Roch. & Mab., Moll. Cap Horn, p. H9, pl. i., 1889.

Patagonian Region.

Chtenopteryx, Appellöf, 1890.

1. **C. fimbriatus**, App., Teuthol. Beitr. I., pp. 4-6, figs. 1-6, 1890.

Mediterranean Region.

2. **C. cyprinoides**, Joubin, Bull. soc. zool. Fr., xix., p. 64, cut, 1894.

Mediterranean Region (from the stomach of a Dolphin).

[1] Gives dimensions of a specimen captured off Chili, but no complete description.

[2] An elaborate account of the anatomy and external characters of this species, including a comparison with allied forms. The talented and industrious author, whose early death has cut short a career of great promise, proposed to divide the Ommatostrephidæ into two subfamilies, Ommatostrephinæ and Illicinæ.

[3] I think it more than probable that these two species will prove to be the same.

Architeuthis, Steenstrup, 1856.

7. A. Kirkii, Robson, Tr. N. Zeal. Inst., xix., p. 155, 1887.
   New Zealand Region.
8. Architeuthis sp., Mitsukuri and Ikeda, Notes on a Gigantic Cephalopod, Zool. Mag. Tokyo, vol. vii., No. 77, pp. 39-50, pl. x., 1895.

Tracheloteuthis, Steenstrup, 1881.

5 T. Guernei, Joubin, Céph. atlant. nord, pp. 34-38, pls. i., figs. 5, 6; ii., figs. 4-9, 1895.
   Atlantic Region.

Family XI. Onychii, Steenstrup, 1861.

Subfamily Onychoteuthidæ, Gray, 1849 (*sensu stricto*).

Abralia, Gray, 1849.

7. A. andamanica, Goodrich, Ceph. Calcutta Mus., p. 9, pl. ii., figs. 38-45, 1896.
   Indo-Malayan Region.
8. A. lineata, Goodrich, *op. cit.*, p. 10, pl. iii., figs. 46-50, 1896.
   Indo-Malayan Region.

Abraliopsis, Joubin, 1896.

1. A. Pfefferi, Joubin, Bull. soc. sci. et méd. Ouest, tom. v., No. 1, pp. 19-35, cuts, 1896.
2. A. Hoylei, Joubin, *op. cit.*
   Enoploteuthis Hoylei, Pfr., Ceph. Hamb. Mus., p. 17, fig. 22, 1884.

Pterygioteuthis, H. Fischer, 1895.

1. P. Giardi, Fischer, Journ. de Conch., 1895, pp. 205-211, pl. ix., 1896.

Chaunoteuthis, Appellöf, 1891.

1. C. mollis, App., Teuthol. Beitr. I., pp. 3-27, 4 pls., 1891.

Subfamily Gonatidæ, Hoyle, 1886.

Gonatus, Gray, 1849.

1. G. Fabricii (Licht.), Hoyle, Proc. Zool. Soc., 1889, pp. 117-135, pls. xiii., xiv.

Family XII. Taonoteuthi, Steenstrup, 1861.

Subfamily Chiroteuthidæ, Gray, 1849.

Chiroteuthis,[1] d'Orbigny, 1839.

4. C. Picteti, Joubin, Céph d'Amboine, pp. 49-56, pls. i., ii., 1894.
Indo-Malayan Region.

5. C. macrosoma, Goodrich, Ceph. Calcutta Mus., p. 12, pl. iii., figs. 51-57, 1896.
Indo-Malayan Region.

6. C. pellucida, Goodrich, *op. cit.*, p. 14, pl. iv., figs. 58-61, 1896.
Indo-Malayan Region.

7. C. Grimaldii, Joubin, Céph. atlant. nord, pp. 38-46, pls. iii., figs. 1-4; iv., figs. 1, 2; v., figs. 2, 4-9, 12, 1895.
Atlantic Region.

Histiopsis, Hoyle, 1885.

2. H. Hoylei, Goodrich, Ceph. Calcutta Mus., p. 15, pl. iv., figs. 62-71, 1896.
Indo-Malayan Region.

Calliteuthis, Verrill, 1880.

3. C. Alessandrini, App., Teuthol. Beitr. I., pp. 27-31, figs. 7-11, 1890.
1851. *Loligo Alessandrinii*, Vér., Céph. médit., p. 99, pl. xxxv. figs. *f*, *g*, *h*.

4. C. nevroptera, Jatta, Cef. Napoli, p. 118, pl. 31, figg. 1-10, 1896.
Mediterranean Region.

Histioteuthis, d'Orbigny, 1839.

2. H. Ruppelli, Vérany.[2]

Family XIII. Cranchiæformes, Steenstrup, 1861.

Subfamily Cranchiadæ, Gray, 1849.

Taonius, Steenstrup, 1861.

8. T. Richardi, Joubin, Céph. atlant. nord, pp. 46-50, pls. iii., figs. 5, 6; iv. figs. 3, 5, 1895.
Atlantic Region.

[1] Joubin has given most interesting and important accounts of the suckers and cuticular organs in this genus (Quelques organes colorés de la peau chez deux céphalopodes du genre Chiroteuthis, *Mém. soc. zool. Fr.*, 1893, pp. 1-13, cuts).

[2] The luminous organs of this genus have received full and careful treatment at the hands of Professor Joubin (Recherches sur l'appareil lumineux d'un céphalopode *Histioteuthis Ruppellii*, Vérany; Rennes, 1893).

9. T. abyssicola, Goodrich, Ceph. Calcutta Mus., p. 17, pl. v., figs. 72-80, 1876.
Indo-Malayan Region.

Incertæ sedis.

Lepidoteuthis, Joubin, 1895.

1. L. Grimaldii, Joubin, Comptes rendus, cxxi., pp. 1172-1174, cuts, 1895.
Atlantic Region.

APPENDIX, 1897.

Mastigoteuthis levimana, Lönnberg, Notes rare Ceph., p. 605, 1897.
Atlantic Region.

Sepia verrucosa, Lönnberg, Two Ceph. Teneriffe, p 697, 1897.
Atlantic Region.

Ommastrephes Bartrami, var. sinuosa, Lönnberg, *op. cit.*, p. 701.
Atlantic Region.

Explanation of the more Abbreviated References.

App., Teuthol. Beitr. I.,—Appellöf, Teuthologische Beiträge, I., *Chtenopteryx*, n.g., *Veranya sicula*, Krohn, *Calliteuthis*, Verrill, *Bergens Mus. Aarsber.*, for 1889, No. 3, pp. 1-34, pl., 1890.

,, **II.**, *op. cit.*, for 1890, No. 1, pp. 1-29, pls. i.-iii., 1891.

Arbanasich.—*See* Fra Piero.

Brock, Ind. Ceph.,—Indische Cephalopoden, *Zool. Jahrbücher*, v. 2, pp. 591-614, pl. 16, 1887.

Becher, Moll. Jan Mayen,—Die internationale Polarforschung, 1882-1883. Die österreichische Polarstation Jan Mayen ausgerüstet durch seine Excellenz Graf Hanns Wilczek, geleitet vom k.k. Corvetten-Capitän Emil Edlen von Wohlgemuth. Beobachtungs-Ergebnisse herausgegeben von der k. Akademie der Wissenschaften, iii. Band., vi. Theil., Zoologie, G. Mollusken, pp. 67-82, pl. vi. [1886].

Fra Piero, Moll. Sardegna,—(Pietro Arbanasich)—La enumerazione dei molluschi della Sardegna, *Bull. società malacologica italiana*, vol. xix., 1894, pp. 263-278, 1895.

Girard, Nota ceph. Portugal,—Nota sobre os cephalopodes de Portugal, *Jorn. sci. Lisboa* (2), iii., 1889 [published 1890].

,, **Rév. moll. Lisbonne,**—Révision des mollusques du muséum de Lisbonne, I. — Céphalopodes, *Jorn. sci. Lisboa* (2), vol. iv., 1890.

Goodrich, E. S., Ceph. Calcutta Mus.,—Report on a collection of Cephalopoda from the Calcutta Museum, *Trans. Linn. Soc.* (2), vol. vii., 24 p., 5 pl., 1896.

Jatta, Cef. Napoli,—I cefalopodi viventi nel Golfo di Napoli, Fauna u. Flora des Golfes von Neapel, xxiii., 11+268 pp., 31 pl., 4°. Berlin, 1896.

Joubin, Céph. "**Melita,**"—Voyages de la goëlette *Melita* sur les côtes orientales de l'océan atlantique et dans la Méditerranée. Céphalopodes, *Mém. soc. zool. Fr.*, vi., pp. 214-225, cuts, 1893.

,, **Céph. d'Amboine,**—*Revue suisse de zool.*, ii., pp. 23-64, pls. i.-v., 1894. Note complémentaire, *op. cit.*, iii., pp. 459-460, 1895.

,, **Céph. atl. nord,**—Résultats des campagnes scientifiques accomplies sur son yacht par Albert 1er. Fasc. ix., Contribution à l'étude des Céphalopodes de l'Atlantique Nord, 63 pp., 6 pls., 4°. Monaco, 1895.

Lönnberg, Notes rare Ceph.,—Notes on some rare Cephalopods, *Öfversigt k. Vetensk.-Akad. Förhandl.*, 1896, No. 8, pp. 603-612, cuts, 1897.

,, **Two Ceph. Teneriffe,**—Two Cephalopods from Teneriffe, collected by A. Tullgren, *Öfversigt k. Vetensk.-Akad. Förhandl.*, 1896, No. 10, pp. 697-706, 1897.

Ortm., Jap. Ceph.,—Ortmann, A., Japanische Cephalopoden, *Zool. Jahrbücher*, vol. iii., pp. 639-670, pls. 20-25, 1888.

,, **Ceylon Ceph.,**—Ortmann, A., Cephalopoden von Ceylon, *Zool. Jahrbücher*, vol. v., pp. 669-678, pl. xlvi., 1890.

Stp., Notæ Teuthol., 6,—Steenstrup, Notæ Teuthologicæ, 6, *Overs. k. Dansk. Vidensk. Forhandl.*, 1887, pp. 47-66.

,, **Notæ Teuthol., 7,**—*op. cit.*, 1887, pp. 67-126.

,, **Notæ Teuthol., 8,**—*op. cit.*, 1887, pp. 128-146, 2 pls.

Roch. and Mab., Moll. Cap Horn,—A. T. de Rochebrune and J. Mabille, Mollusques: *in*, Mission scientifique du Cap Horn, 1882-1883, t. vi., Zoologie. Paris, 1889,[1] pp. 1-10, pl. i.

[1] The new species described in this work are dated by the authors 1887, but the title page of the work bears the year 1889, and there is no reference to an earlier publication.